

WHAT IS CLAIMED IS:

1. A stent formed to be tubular as a whole,
having a first outer diameter capable of insertion into
a tubular lumen of a living body, and capable of
5 expansion to have a second outer diameter larger than
said first outer diameter when an expanding force
directed outward in a radial direction is imparted
within the stent, comprising a plurality of annular
expanding members arranged a predetermined distance
10 apart from each other in an axial direction of the
stent and each formed of a waved element; and a
plurality of waved connecting members connecting ridges
and/or bottoms of the waved elements of adjacent
annular expanding members; wherein said plurality of
15 annular expanding members are arranged in an axial
direction of the stent such that no substantial phase
difference exists in the waves of the waved element,
and each of the waved connecting members has a
plurality of waves including a wave formed in the
20 clearance between adjacent annular expanding members
and having an amplitude larger than that of the other
wave.

2. The stent according to claim 1, wherein the
ridges of the waved elements of the adjacent annular
25 expanding members are connected to each other and the
bottoms of the waved elements of the adjacent annular
expanding members are connected to each other by the

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waved connecting members in respect of all the annular expanding members.

3. The stent according to claim 1, wherein the width of each of said waved connecting members is not
5 larger than 1/2 of the width of the waved element.

4. The stent according to claim 3, wherein the width of each of said waved connecting members falls within a range of between 0.03 mm and 0.08 mm.

5. The stent according to claim 1, wherein the
10 largest wave included in each of said waved connecting members is larger than the width of the ridge or bottom of the waved element under the state that the stent has said first outer diameter.

6. The stent according to claim 1, wherein the
15 total length of said waved connecting member is at least 1.3 times as much as the straight distance between the ridges or between the bottoms of the waved elements of the adjacent annular expanding members.

7. The stent according to claim 1, wherein the
20 width of the clearance between adjacent annular expanding members falls within a range of between 0.4 mm and 0.8 mm.

8. A stent to be formed tubular as a whole,
having a first outer diameter capable of insertion into
25 a tubular lumen of a living body, and capable of expansion to have a second outer diameter larger than said first outer diameter when an expanding force

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directed outward in a radial direction is imparted within the stent, comprising an expanding member formed of a waved element arranged to spirally surround a longitudinal axis of the stent; and a plurality of
5 waved connecting members connecting ridges and/or bottoms of the waved elements of said expanding member; wherein said waved element has ridges and bottoms periodically appearing in a manner to cross a circumferential direction of said stent, and each of
10 the waved connecting members has a plurality of waves including a wave formed in a clearance between adjacent waved elements in an axial direction of said stent and having an amplitude larger than that of the other wave.

9. The stent according to claim 8, wherein the
15 ridges of the waved elements of the annular expanding members adjacent to each other in the longitudinal axial direction of said stent are connected to each other and the bottoms of the waved elements of the annular expanding members adjacent to each other in the
20 longitudinal axial direction of said stent are connected to each other by the waved connecting members in respect of all the annular expanding members.

10. The stent according to claim 8, wherein the
25 waved elements adjacent to each other in the longitudinal axial direction of said stent are arranged such that no substantial phase difference exists between the waves.

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11. The stent according to claim 8, wherein the width of each of said waved connecting members is not larger than 1/2 of the width of the waved element.

12. The stent according to claim 11, wherein the
5 width of each of said waved connecting members falls within a range of 0.03 mm to 0.08 mm.

13. The stent according to claim 8, wherein the largest wave included in each of said waved connecting members is larger than the width of the ridge or bottom
10 of the waved element under the state that the stent has said first outer diameter.

14. The stent according to claim 8, wherein the total length of said waved connecting member is at least 1.3 times as much as the straight distance
15 between the ridges or between the bottoms of the waved elements adjacent to each other in the longitudinal axial direction of said stent.

15. The stent according to claim 8, wherein the width of the clearance between the waved elements
20 adjacent to each other in the longitudinal axial direction of said stent falls within a range of 0.4 mm to 1.7 mm.

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